



State of Utah

Department of
Environmental Quality

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DIVISION OF AIR QUALITY
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DAQ-043-2005

MEMORANDUM

TO: Air Quality Board

THROUGH: Richard W. Sprott, Executive Secretary

FROM: Nando Meli Jr., New Source Review Engineer

DATE: June 23, 2005

SUBJECT: Board Approval for SIP Modification of the Equipment Requirements in Approval Order DAQE #862-01 for the Kennecott Copperton Concentrator Site.

Company Name Kennecott Utah Copper Corporation (KUCC)

Location: Kennecott Utah Power Plant, 9600 West 2100 South, Magna, Salt Lake County, Utah

Project Description: Kennecott Utah Copper Corporation (KUCC) has requested approval to install a pebble crushing process at KUCC's Copperton Concentrator. The KUCC Copperton Concentrator is currently operating under the Approval Order DAQE-862-01, dated November 20, 2001. KUCC intends to add two pebble-crushing units and related material handling equipment. This will allow KUCC to increase the throughput of copper ore through the concentrator and improve process efficiency. KUCC has stopped operation of the Feed Molybdenite Dryers and Molybdenite Rotary Kiln and has requested that they be removed from the AO.

The stack testing requirements for the Product Molybdenite Dryers have been removed. The PM₁₀ testing limit for the Product Molybdenite Dryers was 0.15 lbs/hr. If both dryers emitted at this rate the emissions for one year the emissions would be 1.3 tons per year. Based on this emissions rate and that the SIP only required stack testing if directed, the stack testing requirements have been removed.

New Source Performance Standards (NSPS) Subpart LL (Standards of Performance for Metallic Mineral Processing Plants) apply to this source. Title V of the 1990 Clean Air Act applies to this source. Salt Lake County is a non-attainment area of the National Ambient Air Quality Standards (NAAQS) for PM₁₀ and SO₂, and is a maintenance area for ozone. The KUCC Copperton Concentrator is also included as a regulated PM₁₀ source in the Salt Lake County PM₁₀ State Implementation Plan (SIP). This AO modification will result in a modification to the existing SIP limits. Therefore, this modification will require approval by the Air Quality Board. The emissions will decrease in tons per year (tpy) as follows: PM₁₀ = 1.19, SO₂ = 86.30, NO_x = 6.95, CO = 5.84, VOC = 23.38. The changes in emissions will result in the following, in tons per year, potential to emit totals: PM₁₀ = 7.35, SO₂ = 0.10, NO_x = 10.75, CO = 9.06, and VOC = 2.32.

A public comment period was held in accordance with UAC R307-401-4 and all comments received were addressed. See attached memo.

attach Copy of ITA DAQE-IN0571017-05